Client's ref.: TSMC2003-0940

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File: 0503-A30088US/final/alicewu/

## ABSTRACT OF THE DISCLOSURE

A mask fabrication system. The mask fabrication system contains a processing tool, a metrology tool, and a controller. The processing tool processes a mask. The metrology tool inspects the mask to obtain an inspection result. The controller generates a manufacturing model of the processing tool and calibrates the manufacturing model according to a device data, a material data, and the inspection result of the mask.